

APPARATUS FOR CALCULATING IMMUNITY FROM RADIATED
ELECTROMAGNETIC FIELD, METHOD FOR ACHIEVING CALCULATION,
AND STORAGE MEDIUM STORING PROGRAMS THEREFOR

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ABSTRACT OF THE DISCLOSURE

10 An apparatus for calculating immunity from a
radiated electromagnetic field which makes possible high
speed simulation of the electric current flowing through
an electronic apparatus due to a radio wave radiated from
an antenna, and a method and a storage medium storing
15 programs used for the same, which divides a radio wave
radiated from an antenna into a carrier wave, upper
sideband wave, and lower sideband wave and uses the
moment method to simulate the effect of the radio wave on
an electronic apparatus by calculating the mutual
20 impedance for just one frequency component out of the
above three frequency components and using that mutual
impedance to solve the simultaneous equations under the
moment method so as to calculate the electric current
flowing through the electronic apparatus and using that
25 mutual impedance to solve the simultaneous equations
under the moment method for one frequency among them,
while ignoring the wave source of the electronic
apparatus, so as to calculate the electric current of the
frequency component flowing through the electronic
30 apparatus and calculating the electric currents of the
remaining frequency components by proportional
operations, whereby it is able to calculate the electric
current flowing through the electronic apparatus due to a
radio wave radiated from the antenna at a high speed.